

Sequence Listing N10038PCT.ST25.txt  
SEQUENCE LISTING

<110> NOXXON Pharma AG

<120> Ghrelin binding nucleic acids

<130> N 10038 PCT

<160> 130

<170> PatentIn version 3.1

<210> 1

<211> 28

<212> PRT

<213> Rattus rattus

<400> 1

Gly Ser Ser Phe Leu Ser Pro Glu His Gln Lys Ala Gln Gln Arg Lys  
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg  
20 25

<210> 2

Sequence Listing N10038PCT.ST25.txt

<211> 83

<212> RNA

<213> Artificial Sequence

<220>

<223> RNA pool

<220>

<221> misc\_feature

<222> (22)..(61)

<223> nucleotide = a, g, c or u

<400> 2

ggagcucaga cuucacucgu gnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 60

ncacguacca cugucgguuc cac

83

<210> 3

<211> 83

<212> RNA

<213> Artificial Sequence

<220>

<223> RNA pool (reverse complementary strand)

<220>

<221> misc\_feature

Sequence Listing N10038PCT.ST25.txt

<222> (23)..(62)

<223> nucleotide = a,g,c or u

<400> 3

guggaaccga cagugguacg ugnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nncacgagug aagucugagc ucc

83

<210> 4

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<220>

<221> promoter

<222> (1)..(19)

<223> T7 promoter

<400> 4

tctaatacga ctactatag gagctcagac ttactcg

38

<210> 5

<211> 20

<212> DNA

Sequence Listing N10038PCT.ST25.txt

<213> Artificial Sequence

<220>

<223> primer

<400> 5

gtggaaccga cagtgtacg

20

<210> 6

<211> 102

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA pool

<220>

<221> misc\_feature

<222> (41)..(80)

<223> nucleotide is a, g, c or t

<400> 6

tctaatacga ctactatag gagctcagac ttactctgtg nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn cacgtaccac tgcggtcc ac

102

<210> 7

<211> 82

Sequence Listing N10038PCT.ST25.txt

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

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ggagcucaga cuucacucgu gugaggcaau aaaacuuaag uccgaaggua accaauccua 60

cacguaccac uguccguucc ac

82

<210> 8

<211> 47

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 8

cgugugaggc aauaaaacuu aaguccgaag guaaccaauc cuacacg 47

<210> 9

<211> 82

<212> RNA

<213> Artificial Sequence

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Sequence Listing N10038PCT.ST25.txt

<223> Ghrelin-binding nucleic acid

<400> 9

ggagcucaga cuucacucgu gugaggcagu aaaacuuaag uccgaaggua accaauccua 60

cacguaccac ugucgguucc ac

82

<210> 10

<211> 47

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 10

cgugugaggc aguaaaacuu aaguccgaag guaaccaauc cuacacg 47

<210> 11

<211> 82

<212> RNA

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<223> Ghrelin-binding nucleic acid

<400> 11

ggagcucaga cuucacucgu gugaggcaau aaaacuuaag uccgaaggua accaauccug 60

cacguaccac ugucgguucc ac

82

Sequence Listing N10038PCT.ST25.txt

<210> 12

<211> 47

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<400> 12

cgugugaggc aauaaaacuu aaguccgaag guaaccaauc cugcacg 47

<210> 13

<211> 82

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<400> 13

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cacguaccac ugucgguucc ac 82

<210> 14

<211> 47

<212> RNA

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Sequence Listing N10038PCT.ST25.txt

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<223> Ghrelin-binding nucleic acid

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<210> 15

<211> 82

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 15

ggagcucaga cuucacucgu gugaggcaau aaacguaag uccgaaggua accaauccua 60

cacguaccac uguogguucc ac 82

<210> 16

<211> 47

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

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Sequence Listing N10038PCT.ST25.txt

<210> 17

<211> 84

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<400> 17

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uacacguacc acugucgguu ccac 84

<210> 18

<211> 49

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<400> 18

cgugugaggc aaauaaaacuu guaaguccga agguaaccaa uccuacacg 49

<210> 19

<211> 83

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<400> 19

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acacguacca cugucgguuc cac

83

<210> 20

<211> 48

<212> RNA

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<220>

<223> Ghrelin-binding nucleic acid

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<210> 21

<211> 85

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

Sequence Listing N10038PCT.ST25.txt

<400> 21

ggagcucaga cuucacucgu gcgugaggc aaaaacguaa gaccgaaggu aaccuuuccu 60

acccacguac cacugucggu uccac

85

<210> 22

<211> 50

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 22

cgugcgguaga ggcaaaaacg uaagaccgaa gguaaccuuu ccuaccacag 50

<210> 23

<211> 85

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 23

ggagcucaga cuucacucgu gugagguagu aaaaaaacgu aaauccgaag gaaaccaauc 60

cuacacguac cacugucggu uccac

85

<210> 24

Sequence Listing N10038PCT.ST25.txt

<211> 50

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

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<210> 25

<211> 88

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 25

ggagcucaga cuucacucgu gugagguagu aaaaaaaaaa cguaaaucg aagguaacca 60

auccuacacg uaccacuguc gguuccac 88

<210> 26

<211> 53

<212> RNA

<213> Artificial Sequence

Sequence Listing N10038PCT.ST25.txt

<220>

<223> Ghrelin-binding nucleic acid

<400> 26

cgugugaggu aguaaaaaaaaa aaacguaaa ccgaagguaa ccaauccuac acg 53

<210> 27

<211> 89

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 27

ggagcucaga cuucacucgu gugagguagu aaaaaaaaa acguaaaucc gaagguaacc 60

aguccuacac guaccacugu cgguuccac 89

<210> 28

<211> 54

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<400> 28

cgugugaggu aguaaaaaaaaa aaacguaaa uccgaaggua accaguccua cacg 54

Sequence Listing N10038PCT.ST25.txt

<210> 29

<211> 90

<212> RNA

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<223> Ghrelin-binding nucleic acid

<400> 29

ggagcucaga cuucacucgu gugagguagu aaaaaaaaaa aacguaauc cgaagguaac 60

caauccuaca cguaccacug ucgguuccac 90

<210> 30

<211> 55

<212> RNA

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<223> Ghrelin-binding nucleic acid

<400> 30

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<210> 31

<211> 91

<212> RNA

<213> Artificial Sequence

Sequence Listing N10038PCT.ST25.txt

<220>

<223> Ghrelin-binding nucleic acid

<400> 31

ggagcucaga cuucacucgu gugagguagu aaaaaaaaaa aaacguaaau ccgaagguaa 60

ccaauccuac acguaccacu gucguuucca c 91

<210> 32

<211> 56

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<400> 32

cgugugaggu aguaaaaaaaaa aaaaaacgua aauccgaagg uaaccaaucc uacacg 56

<210> 33

<211> 94

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 33

ggagcucaga cuucacucgu gugagguagu aaaaaaaaaa aaaaaacaua aauccgaagg 60

Sequence Listing N10038PCT.ST25.txt

uaaccaaucc uacacguacc acugucgguu ccac

94

<210> 34

<211> 59

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 34

cgugugaggu aguaaaaaaa aaaaaaaaaac auaaauccga agguaaccaa uccuacacg 59

<210> 35

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> primer binding sequence

<400> 35

ggagcucaga cuucacucg 19

<210> 36

<211> 20

<212> RNA



Sequence Listing N10038PCT.ST25.txt

<213> Artificial Sequence

<220>

<223> primer binding sequence

<400> 36

cguaccacug ucgguuccac

20

<210> 37

<211> 47

<212> RNA

<213> Artificial Sequence

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<223> truncated B11

<400> 37

cgugugaggc aauaaaacuu aaguccgaag guaaccaauc cuacacg

47

<210> 38

<211> 83

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 38

ggagcucaga cuucacucgu gcggugaggc agacguaaga ccgaagguaa ccuuccuac

60

# Sequence Listing N10038PCT.ST25.txt

ccacguacca cugucgguuc cac

83

<210> 39

<211> 83

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 39

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ccacguacca cugucgguuc cac

83

<210> 40

<211> 83

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 40

ggagcucaga cuucacucgu guggugagggc uaacguaaga ccgaagguaa ccauuccuac 60

ccacguacca cugucgguuc cac

83

<210> 41

Sequence Listing N10038PCT.ST25.txt

<211> 81

<212> RNA

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<223> Ghrelin-binding nucleic acid

<400> 41

ggagcucaga cuucacucgu gugagguaau aaaacuaau ccgaagguaa ccaauccuac 60

acguaccacu gucguucca c

81

<210> 42

<211> 83

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 42

ggagcucaga cuucacucgu gcguaccguu auaaaggagg uccugcagac ugaugccagg 60

ccacguacca cugucguuc cac

83

<210> 43

<211> 82

<212> RNA

<213> Artificial Sequence

Sequence Listing N10038PCT.ST25.txt

<220>

<223> Ghrelin-binding nucleic acid

<400> 43

ggagcucaga cuucacucgu gcgugagggc agacguaaga ccgaagguaa ccauuccuac 60

cacguaccac ugucgguucc ac

82

<210> 44

<211> 82

<212> RNA

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<223> Ghrelin-binding nucleic acid

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cacguaccac ugucgguucc ac

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<210> 45

<211> 82

<212> RNA

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<223> Ghrelin-binding nucleic acid

Sequence Listing N10038PCT.ST25.txt

<400> 45  
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 cacguaccac ugucgguucc ac 82

<210> 46

<211> 84

<212> RNA

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<223> Ghrelin-binding nucleic acid

<400> 46  
 ggagcucaga cuucacucgu gcgugagggc aaaaacguaa gaccgaaggu aaccuuuccu 60  
 accacguacc acugucgguu ccac 84

<210> 47

<211> 80

<212> RNA

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<220>

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<400> 47  
 ggagcucaga cuucacucgu gugagguaau aaaacuaauu ccgaagguaa ccaauccuaa 60  
 cguaccacug ucgguuccac 80

Sequence Listing N10038PCT.ST25.txt

<210> 48

<211> 81

<212> RNA

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<223> Ghrelin-binding nucleic acid

<400> 48

ggagcucaga cuucacucgu gugaggcagu aaaacuuaag uccgaaggua accaauccua 60

acguaccacu gucggucca c

81

<210> 49

<211> 82

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 49

ggagcucaga cuucacucgu gugaggcaau uaaacuugaa guccgaaggu aaccaauccu 60

aacguaccac ugucgguucc ac

82

<210> 50

<211> 83

<212> RNA

Sequence Listing N10038PCT.ST25.txt

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<223> Ghrelin-binding nucleic acid

<400> 50

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uaacguacca cugcgguuc cac

83

<210> 51

<211> 81

<212> RNA

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<223> Ghrelin-binding nucleic acid

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acguaccacu gucgguucca c

81

<210> 52

<211> 83

<212> RNA

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Sequence Listing N10038PCT.ST25.txt

<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

<400> 52

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ccacguacca cugucgguuc cac

83

<210> 53

<211> 82

<212> RNA

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<223> Ghrelin-binding nucleic acid

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<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

<400> 53

ggagcucaga cuucacucgu ggaauaggaa ugacucagac cuuucuaaua gucgccgcac 60

cacguaccac ugucgguucc ac

82

<210> 54



Sequence Listing N10038PCT.ST25.txt

<211> 84

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<223> Ghrelin-binding nucleic acid

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<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

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accacguacc acugcgguu ccac

84

<210> 55

<211> 84

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

Sequence Listing N10038PCT.ST25.txt

<400> 55  
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 accacguacc acugucgguu ccac 84

<210> 56

<211> 83

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

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 ccacguacca cugucgguuc cac 83

<210> 57

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Sequence Listing N10038PCT.ST25.txt

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<223> Ghrelin-binding nucleic acid

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<223> 2'-Flouro-modified pyrimidines

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cacguaccac ugucgguucc ac 82

<210> 58

<211> 84

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

<400> 58

ggagcucaga cuucacucgu ggaauaggaa ugacucagac guuucuccau acgucgccg 60

accacguacc acugcgguu ccac 84

Sequence Listing N10038PCT.ST25.txt

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<223> 2'-Flouro-modified pyrimidines

<400> 59

ggagcucaga cuucacucgu ggaauaggaa ugauucagac guuuccauac gucgcgcac 60

cacguaccac ugucgguucc ac

82

<210> 60

<211> 81

<212> RNA

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<221> misc\_feature

Sequence Listing N10038PCT.ST25.txt

<223> 2'-Flouro-modified pyrimidines

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acguaccacu gucgguucca c

81

<210> 61

<211> 81

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

<400> 61

ggagcucaga cuucacucgu ggaauaggaa ugacucagac guuucauacg ugcgccgacc 60

acguaccacu gucgguucca c

81

<210> 62

<211> 80

<212> RNA

<213> Artificial Sequence

# Sequence Listing N10038PCT.ST25.txt

<220>

<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

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ggagcucaga cuucacucgu ggaauaggaa ugacucagac guccauacgu cgccgcacca 60

cguaccacug ucgguuccac 80

<210> 63

<211> 85

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

<400> 63

ggagcucaga cuucacucgu ggaauaggaa ugacucagac guuuucucca uacgucgccg 60

caccacguac cacugucggu uccac 85

Sequence Listing N10038PCT.ST25.txt

<210> 64

<211> 84

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<220>

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<223> 2'-Flouro-modified pyrimidines

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ggagcucaga cuucacucgu ggaauaggaa ugacucagac guuuuuccau acgucgccgc 60

accacguacc acugcgguu ccac

84

<210> 65

<211> 82

<212> RNA

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<223> Ghrelin-binding nucleic acid

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Sequence Listing N10038PCT.ST25.txt

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

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uacguaccac ugucgguucc ac

82

<210> 66

<211> 82

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

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<223> 2'-Flouro-modified pyrimidines

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uacguaccac ugucgguucc ac

82

<210> 67

<211> 81

<212> RNA



Sequence Listing N10038PCT.ST25.txt

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

<400> 67

ggagcucaga cuucacucgu gcgcuuucug uuagcuccga ccgucagugc ggcacgagau 60

acguaccacu gucgguucca c

81

<210> 68

<211> 81

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

<400> 68

ggagcucaga cuucacucgu gcgcuuucug uuagcucaga ccgucagugc ggcacgagau 60

# Sequence Listing N10038PCT.ST25.txt

acguaccacu gucgguucca c

81

<210> 69

<211> 80

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

<400> 69

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cguaccacug ucgguuccac

80

<210> 70

<211> 77

<212> RNA

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Sequence Listing N10038PCT.ST25.txt

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<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

<400> 70

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accacugucg guuccac

77

<210> 71

<211> 82

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

<400> 71

ggagcucaga cuucacucgu gugccgccc uauugucagg gagcuugagc cgacacucg 60

gacguaccac uguccguucc ac

82

<210> 72

<211> 83

<212> RNA

<213> Artificial Sequence

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<220>

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<223> 2'-Flouro-modified pyrimidines

<400> 72

ggagcucaga cuucacucgu ggaauaggaa ugacucagac guuucucaua cgucgccgca 60

ccacguacca cugucgguuc cac

83

<210> 73

<211> 83

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

Sequence Listing N10038PCT.ST25.txt

<400> 73  
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 ccacguacca cugucgguuc cac 83

<210> 74

<211> 82

<212> RNA

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<210> 75

<211> 79

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<210> 76

<211> 81

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acguaccacu gucgguucca c 81

<210> 77

Sequence Listing N10038PCT.ST25.txt

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acguaccacu gucgguucca c 81

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ccacguacca cugucgguuc cac

83

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accacguacc acugucgguu ccac

84

Sequence Listing N10038PCT.ST25.txt

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accacguacc acugcgguu ccac

84

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<211> 82

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ccacguacca cugucgguuc cac

83

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<223> 2'-Flouro-modified pyrimidines

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uacguaccac ugucgguucc ac

82

Sequence Listing N10038PCT.ST25.txt

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<210> 88

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43

<210> 90

<211> 49

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49

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43

Sequence Listing N10038PCT.ST25.txt

<210> 92

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43

<210> 93

<211> 43

<212> RNA

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43

<210> 94

<211> 49

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Sequence Listing N10038PCT.ST25.txt

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<211> 43

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<400> 95

gggugaggca cacccauaag uccgaaggua accaauccua ccc 43

<210> 96

<211> 43

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 96

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<210> 97



Sequence Listing N10038PCT.ST25.txt

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<400> 97

gggugaggca guaaaguaag accgaaggua accaauccua ccc

43

<210> 98

<211> 43

<212> RNA

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<400> 98

gggugaggca guucaguaag uccgaaggua accaauccua ccc

43

<210> 99

<211> 43

<212> RNA

<213> Artificial Sequence

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Sequence Listing N10038PCT.ST25.txt

<223> Ghrelin-binding nucleic acid

<400> 99

gggugaggcg uacaaauaag uccgaaggua accaguccua ccc

43

<210> 100

<211> 43

<212> RNA

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43

<210> 101

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<212> RNA

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<211> 49

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<210> 103

<211> 49

<212> RNA

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<210> 104

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Sequence Listing N10038PCT.ST25.txt

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49

<210> 105

<211> 49

<212> RNA

<213> Artificial Sequence

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49

<210> 106

<211> 49

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Sequence Listing N10038PCT.ST25.txt

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<210> 107

<211> 49

<212> RNA

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<210> 108

<211> 49

<212> RNA

<213> Artificial Sequence

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<210> 109

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<400> 109

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<210> 110

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<210> 111

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<400> 111

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<210> 112

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<210> 113

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<212> RNA

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<400> 113

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<210> 114

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<212> RNA

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<400> 115

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<210> 116

<211> 49

<212> RNA

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<400> 116

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Sequence Listing N10038PCT.ST25.txt

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<210> 118

<211> 49

<212> RNA

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<400> 118

ggugggugag gcaauaaagu aagaccgaag guaaccaauc cuaccacc 49

<210> 119

<211> 49

<212> RNA

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Sequence Listing N10038PCT.ST25.txt

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<210> 120

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<212> RNA

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<400> 120

ggugggugag gcaauccgau aaguccgaag guaaccaauc cuaccacc 49

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<212> RNA

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<400> 121

ggugggugag gcaguaaagu aagaccgaag guaaccaauc cuaccacc 49

<210> 122

Sequence Listing N10038PCT.ST25.txt

<211> 49

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 122

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49

<210> 123

<211> 49

<212> RNA

<213> Artificial Sequence

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<400> 123

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49

<210> 124

<211> 49

<212> RNA

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49

<210> 125

<211> 60

<212> RNA

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<220>

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<400> 125

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<220>

<223> Ghrelin-binding nucleic acid

<400> 126

ggagcucaga cuuagca 17

<210> 127

<211> 18

<212> RNA

<213> Artificial Sequence

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<400> 127

aucgaguguc gguuccac 18

<210> 128

<211> 103

<212> DNA

<213> Artificial Sequence

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<210> 129

<211> 38

<212> DNA

<213> Artificial Sequence

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Sequence Listing N10038PCT.ST25.txt

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38

<210> 130

<211> 20

<212> DNA

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<220>

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20